



Main

Range	PowerLogic
Product or component type	Multi-circuit energy meter
Product name	PowerLogic EM4900E
Device short name	EM4914
Power monitoring	Basic instrumentation
Energy management	Sub billing and cost allocation Billing analysis
Device application	Sub billing
Type of measurement	Apparent power total Apparent power per phase Active power total Active power per phase Phase angle Current average Power factor average Current per phase, rms Active energy Power factor per phase
Metering type	Demand current I1, I2, I3, peak demand current IM1, IM2, IM3 Demand power P
[Us] rated supply voltage	100...277 V AC at 50/60 Hz
Network frequency	50 Hz 60 Hz

Complementary

Sampling rate	256 samples/cycle
Analogue input type	Solid core CT, 0.333 V x 42 (single pole) Solid core CT, 0.333 V x 21 (single phase) Solid core CT, 0.333 V x 14 (three phase) Split core CT, 0.333 V x 42 (single pole) Split core CT, 0.333 V x 21 (single phase) Split core CT, 0.333 V x 14 (three phase)
Measurement voltage	150...480 V AC 50/60 Hz between phases 90...277 V AC 50/60 Hz between phase and neutral
Measurement accuracy	+/- 0.5 % of the measuring range power +/- 0.5 % of the measuring range energy +/- 0.5 % of the measuring range current +/- 0.5 % of the measuring range voltage

Communication port protocol	BACnet MS/TP Modbus RTU 2 wires, : 9600, 19200, 38400 bps, even/odd or none, Modbus TCP 2 wires, : 9600, 19200, 38400 bps, even/odd or none, SNMP BACnet IP : 10, 100 Mbits,
Communication port support	RS485 spring connector RJ45
Refresh time	2 s (Modbus) 14 s (BACnet) 20 s (SNMP)
Data recording	Maximum of instantaneous current Maximum of demand current Maximum of demand active power
Communication of data	Over voltage alarm Under voltage alarm High-high current alarm High current alarm Low current alarm Low-low current alarm Total energy
Web services	Web server
Communication service	Updating firmware

Environment

Mounting mode	Wall mount
Installation category	III
Pollution degree	2
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...70 °C
Standards	UL 508 IEC 61010
Width	253 mm
Depth	307 mm
Height	70 mm
Product weight	1.5 kg